

Title (en)
Electrical connector system.

Title (de)
Elektrische Verbindungsvorrichtung.

Title (fr)
Système de connexion électrique.

Publication
EP 0396292 A1 19901107 (EN)

Application
EP 90304323 A 19900423

Priority
US 34769489 A 19890505

Abstract (en)
A system for providing low insertion force electrical interconnections between high density contacts for use in interconnecting circuit packages. A housing has disposed therein one or more pre-buckled beam connectors. Each connector has a resilient insulating strip carrying a plurality of buckling beams electrically isolated from each other. The beams are aligned on the plane defining the strip in parallel with ends extending away from the strip edges in opposing directions. Means are provided for deforming the strip within the housing prior to effecting desired interconnections whereby the beams are pre-buckled. Upon urging contacts into proximity with the beam ends, the buckling force is released causing each beam's ends to be urged away from the strip into engagement with respective contacts, thereby effecting desired interconnection between contacts and through one or more beams.

IPC 1-7
H01R 23/72

IPC 8 full level
H01R 13/193 (2006.01); **H01R 12/88** (2011.01); **H01R 24/00** (2006.01); **H05K 7/14** (2006.01)

CPC (source: EP US)
H01R 12/88 (2013.01 - EP US); **H05K 7/1404** (2013.01 - EP US)

Citation (search report)
• [A] US 4505529 A 19850319 - BARKUS LEE A [US]
• [A] WO 8902172 A1 19890309 - NCR CO [US]
• [A] GB 2032711 A 19800508 - WESTFAELISCHE METALL INDUSTRIE
• [A] US 3495132 A 19700210 - ANHALT JOHN W, et al

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EP0990912A3; US6344751B1; US8206168B2; WO2008089456A3

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
US 4943242 A 19900724; BR 9002103 A 19910813; DE 69010397 D1 19940811; DE 69010397 T2 19950126; EP 0396292 A1 19901107; EP 0396292 B1 19940706; JP H0329278 A 19910207; JP H0630269 B2 19940420; PE 6791 A1 19910305

DOCDB simple family (application)
US 34769489 A 19890505; BR 9002103 A 19900504; DE 69010397 T 19900423; EP 90304323 A 19900423; JP 11531490 A 19900502; PE 16877090 A 19900504